CUMULATIVE AUTHOR INDEX
Environmental Entomology
Volume 24, 1995

A

Abou-Setta, M. M., 870
Abrahamson, W. G., 635, 657
Agret, S., 402
Aidara, S., 402
Alford, A. R., 1275
Allen, J. C., 996, 1018, 1024
Alston, D. G., 34
Aluja, M., 861
Anderson, J. A., 1644
Andow, D. A., 1352
Andrade, I., 497
Arguedas, M., 1487
Arias-Reverón, J. M., 1189
Ashworth, A. C., 716
Asquith, A., 810
Ayertey, J. N., 978
Ayyappath, R., 226

B

Bach, D., 1352
Bailey, S. M., 24
Baker, J. E., 944
Barbosa, P., 40, 271
Barnard, D. R., 1297
Barrett, B. A., 1201
Bartelt, R. J., 1245
Bauer, L. S., 1685
Beerwinkle, K. R., 1122
Bell, R. T., 246
Bell, W. J., 1150
Bellows, Jr., T. S., 380, 412
Bennett, F. D., 796
Bent, E., 125
Bentley, M. D., 1275
Bentz, J.-A., 40, 271
Berkett, L. P., 423
Bernon, G., 1713
Berrada, S., 1604
Berry, J. S., 212
Berry, N. A., 595
Berry, R. E., 159
Beshear, R. J., 1216
Biddinger, D. J., 110
Bin, F., 1703
Blanco-Montero, C. A., 243
Blank, R. H., 1569
Blossey, B., 967
Blua, M. J., 88
Boethel, D. J., 326
Boettner, G. H., 193
Boettner, C. W., 193
Boggs, K. W., 1467
Boldt, P. E., 588
Bonato, O., 841
Bondari, K., 917
Borden, J. H., 116, 692, 923, 933
Boucias, D. G., 239
Bower, K. N., 423
Bowie, M. H., 595
Braker, H. E., 1487
Brewer, G. J., 1224
Brewer, M. J., 392
Briano, J. A., 1131, 1328
Briggs, C. J., 679
Broadbent, A. B., 431
Brower, J. H., 1160
Brown, G. C., 962, 1637
Brown, M. W., 1581
Browning, H. W., 1189
Brusven, M. A., 1432
Bultman, T. L., 1196
Buntin, G. D., 1216
Burnham, C., 193
Butler, L., 1713

C

Cabal, J., 402
Calvin, D. D., 436
Cameron, E. A., 233
Campiolo, S., 475
Capinera, J. L., 143, 762
Carpenter, J. E., 1679
Case, V. M., 348
Casey, I. B., 116
Celedonio-Hurtado, H., 861
Chaney, W. E., 204
Chang, Y.-F., 1365
Charlet, L. D., 1224
Chen, W.-H., 601
Cheng, D., 1122
Childers, C. C., 870
Chinchilla, C. M., 1005
Chittihunsa, T., 1708
Cho, J. J., 513
Cho, K., 58
Chu, C.-C., 354
Clancy, K. M., 80
Clason, D. L., 1696
Coderre, D., 748
Cohen, A. C., 354
Cohen, H., 506
Colazza, S., 1703
Colby, D. M., 1075
Colvin, D. L., 1135
Conley, S., 1275
Cook, S. P., 1234
Cooper, R. J., 571
Cordo, H. A., 1131, 1328
Cornelius, M. L., 1263
Costante, J. F., 423
Costello, M. J., 823
Coutinot, D., 402
Craigen, R., 68
Croft, B. A., 446, 1344

D

D'Amico, V., 1144
Daane, K. M., 823
Dabire, R., 402
Dahlsten, D. L., 730
Davidson, B. S., 1263
Davis, J. I., 1109
Dean, D. E., 1562
Dean, D. H., 1741
Declerck-Floate, R., 967
Dennehy, T. J., 550, 1504
Denno, R. F., 898

De Oliveira, D., 576
Derrick, M. E., 835
Develice, R. L., 1539
Dowd, P. F., 1245
Dreistadt, S. H., 459
Drummond, F. A., 608, 1275
Dubois, N. R., 1741
Duchesne, R.-M., 748

E

Eastman, C. E., 24
Eckel, C. S., 58
Edwards, O. R., 487
Ehler, L. E., 779
Eisenberg, R. M., 348
Elberson, L. R., 538
Elkinton, J. S., 193, 1144
Ellis, D. D., 1358
Epsky, N. D., 762, 1387
Espelie, K. E., 1381
Esquivel, J. F., 851
Evenden, M. L., 923, 933

F

Faeth, S. H., 1548, 1576
Fantinou, A. A., 1458
Farrar, Jr., R. R., 755
Fehrer, M. D., 1069
Felland, C. M., 110
Ferguson, C. S., 149
Ferro, D. N., 608
Ferster, B., 673
Fielding, D. J., 1432
Fleischer, S. J., 436
Flinn, P. W., 1608
Flint, H. M., 261
Flint, M. L., 459
Folgarait, P. J., 1487
Follett, P. A., 167
Ford, P. W., 1263
Fornasari, L., 720
Forno, W., 1664
Forschler, B. T., 1592
Fouillaud, M., 298
Fouly, A. H., 870
Fournier, D., 1604
Fowler, H. G., 475
Fox, C. W., 1548, 1557
Francis, B., 40, 271
Fuester, R., 1713
Funderburk, J. E., 1598

G

Galante, E., 1063
Ganey, D. T., 1196
Gangloff, W. J., 348
Gannon, M. R., 1495
Garcia, C., 480
Gill, G.S.C., 1569
Gillett, J., 1664
Giroux, S., 748
Good, W. R., 1467
Gould, F., 167, 341
Grace, J. K., 1258, 1263
Grafius, E., 1726
Grafton-Cardwell, E. E., 738
Grant, G. G., 1656
Grant, J. A., 521
Grant, J. F., 1075, 1080
Grant, W. E., 817
Gray, D. R., 10
Greenberg, S. M., 1322, 1333
Gribko, L. S., 529
Gries, G., 923
Groden, E., 1275
Grogan, Jr., W. L., 1069
Gross, H. R., 1679
Gutierrez, A. P., 313
Gutierrez, J., 841
Guzman, A., 1387

H

Haagsma, K. A., 1520
Hagedorn, H. H., 846
Hagstrum, D. W., 1608, 1616
Hain, F. P., 1234
Hajek, A. E., 1307, 1685
Hance, T., 1481
Hardman, J. M., 125
Harkness, W. L., 436
Harley, K., 1664
Harms, R. H., 1297
Hastings, F. L., 1234
Haynes, K. F., 1302
Headrick, D. H., 412
Heath, R. R., 1387
Heinz, K. M., 204
Henderson, G., 1592
Hendrix III, W. H., 835
Henneberry, T. J., 354
Hernandez, G., 243
Hewings, A. D., 24
Hight, S. D., 967
Higley, L. G., 226
Hilbert, D. W., 771
Hildebrand, D. F., 1637
Ho, C.-C., 601
Hoard, M. W., 564
Hoekstra, J. M., 246
Hogmire, H. W., 1581
Hohn, M. E., 193, 529
Holliday, N. J., 68
Hollingsworth, R. G., 465, 1414
Holsten, E. H., 1539
Hopper, K. R., 402
Horton, D. R., 179
Houle, M.-J., 576
Hoy, M. A., 487
Hsu, H. T., 1598
Hull, L. A., 110
Humber, R. A., 1685
Hurd, L. E., 348

I

Idris, A. B., 1726
Ignoffo, C. M., 480
Ingvarsson, P., 1487
Irwin, M. E., 24, 306

J

Jackson, D. M., 962, 1637
Jansson, R. K., 917
Jayas, D. S., 640
Johnson, D. J., 1291
Johnson, D. L., 68
Johnson, F. A., 1135
Johnson, J. B., 538
Johnson, K. S., 288

Johnson, P. C., 46
Johnson, S. R., 832
Jones, S. A., 1040
Jones, V. P., 1229

K

Kampmeier, G. E., 24
Karandinos, M. G., 1458
Kassulke, R., 1664
Kaupp, W. J., 1175
Kawasaki, K., 1167
Kemp, W. P., 212
Kennedy, G. G., 58, 167
Kennedy, J. S., 1481
Kido, M. H., 810
Kim, D. I., 1344
Kim, S. S., 1344
King, E. G., 1322, 1333, 1718
Kipp, L. R., 1150
Kirk, G., 402
Kistler, R. A., 663
Klacan, G. C., 1352
Klein, M., 506, 1032
Kleiner, K. W., 1358
Klungness, L. M., 1338
Knapp, J. L., 996, 1018, 1024
Knight, A. L., 1396
Kohama, T., 1167
Kozlov, M. V., 707
Kraus, B., 1473
Kuhar, T. P., 1408
Kumar, N.K.K., 513

L

Lactin, D. J., 68, 1291
Laing, J., 967
Lambert, A. L., 1381
Langevin, D., 1656
Laster, M. L., 409
Lastra, C.C.L., 239
Latto, J., 679
Launer, A. E., 246
Leahy, T., 436
Leahy, T. C., 1352
Leddy, P. M., 380
Lemoine, J., 1604
Leponce, M., 1442
Lesieux, C., 402
Levin, D. M., 306
Lewis, B. E., 367
Leyva, K. J., 80
Liebhold, A. M., 1, 193, 529, 987, 1239, 1529
Liedo, P., 861
Lindgren, B. S., 692
Lingren, P. D., 76, 94, 105, 851, 1122
Liu, J., 159
Lo, K.-C., 601
Logan, J. A., 10
Logan, P., 278
Lonergan, G. C., 1150
Lopez, J. E., 1576
Lopez, Jr., J. D., 1122
Losey, J. E., 436
Lu, W., 278
Lucas, E., 576
Lumbreras, C., 1063

M

MacIntyre, R. J., 846
Macom, T. E., 387
Mankin, R. W., 1616
Mannion, C. M., 1679
Mapangou-Divassa, S., 841
Marquis, R. J., 1487
Marsh, D. M., 1515
Martel, J., 697
Martin, P.A.W., 99
Martin, T. H., 253
Martinson, T. E., 550, 1504
McAuslane, H. J., 1135
McClay, A. S., 796
McClure, M. S., 1207
McCown, B. H., 1358
McCullough, D., 1713
McDaniel, K. C., 1315
McDonald, R. S., 1005
McGuire, M. R., 1245
McIntyre, N. E., 559
McManus, M. L., 193
McMillin, J. D., 1251
McNew, R. W., 1414
McPherson, R. M., 1381
Meade, T., 392
Mena, J., 1063
Mendel, Z., 506
Meola, R. W., 1122
Messing, R. H., 1338
Meyer, S. J., 1404
Meyer, W. L., 1387
Miller, D. A., 1245
Miller, D. R., 692
Miller, M., 1576
Mills, N. J., 361
Miranda, H., 1664
Miyatake, T., 1167
Moon, C. E., 367
Moore, D. E., 1245
Morales-Ramos, J. A., 1322, 1333, 1718
Moran, M. D., 348
Morel, G., 298
Moriya, S., 1167
Morse, J. G., 1040
Mousseau, T. A., 1548, 1557
Muir, W. E., 640
Murdock, L. L.
Murphy, D. D., 246
Murray, K. D., 1275
Murray, L., 367

N

Naranjo, S. E., 261
Nechols, J. R., 454
Nelsen, T. C., 1245
Nestel, D., 506, 1032
Neuvonen, S., 707
Ngi-Song, A. J., 978
Nguyen, T. X., 1604
Nicolas, B., 762
Nitao, J. K., 288
Nordheim, E. V., 889
Nordin, G. L., 962, 1637
Nowierski, R. M., 1284, 1467
Numata, H., 1633
Nyrop, J. P., 521

O

Obrycki, J. J., 581
Oehlschlager, A. C., 1005
Olson, D. L., 454
Olson, M. H., 1569
Olthof, Th.H.A., 431
Onsager, J. A., 212
Ouyang, Y., 738
Overholt, W. A., 978

P

Page, Jr., R. E., 1473
Paine, T. D., 380
Palmer, W. A., 796
Parajulee, M. N., 889
Pasteels, J. M., 1442
Patschke, S. N., 1005
Patterson, R. S., 1131, 1328
Pavuk, D. M., 253
Peach, M. L., 34
Pearson, G. A., 1627
Pelletier, Y., 875
Perring, T. M., 412
Pesquero, M. A., 475
Peters, D. C., 1644
Peterson, R.K.D., 1404
Phillips, T. W., 889
Phoofolo, M. W., 581
Pires, C., 497
Pomerinke, M. A., 1696
Popham, T. W., 851
Porter, S. D., 387, 475
Potter, D. A., 1302
Price, P. W., 80, 497, 909
Prochaska, G. L., 1637
Pullen, K. R., 796
Purcell, M. F., 1338

Q

Quisenberry, S. S., 19

R

Raffa, K. F., 1358
Raman, A., 635
Raulston, J. R., 76, 94, 105, 851
Ravlin, F. W., 10, 1239, 1529
Ready, C. C., 1422
Reagan, T. E., 1013
Reeves, R. M., 46
Reeves III, J., 40, 271
Reichert, S., 402
Reiss, R. A., 716, 846
Renwick, J.A.A., 1307
Richerson, J. V., 588
Richman, D. B., 1315
Riddick, E. W., 361
Ridgway, R. L., 755
Riedl, H., 1229
Roberts, D. W., 1307
Roberts, E. A., 1529
Rodriguez, L. M., 1013
Roisin, Y., 1442
Rojas, M. G., 1333
Rojas, M. J., 1322
Roland, J., 1175
Rollo, C. D., 116
Rooney, T. P., 348
Rossi, R. E., 193
Ruggle, P., 313
Rust, M. K., 1520

S

Sadof, C. S., 1650
Sanderson, S. M., 367
Saphir, N., 506
Sapio, F. J., 1685
Sato, H., 879
Scharen, A. L., 1284
Schaub, L. P., 10
Schmidtmann, E. T., 99
Schmitt, J. J., 1581
Schroeder, P. C., 149
Schuster, D. J., 1562
Schwert, D. P., 716
Scott, G. E., 944
Scriber, J. M., 288
Seal, D. R., 917
Segura, R., 1664
Shannag, H. K., 143
Sharov, A. A., 1239, 1529
Shaver, T. N., 76, 94, 105
Shearer, P. W., 1229
Sheck, A. L., 341
Shields, E. J., 149, 1086, 1096, 1109, 1115
Shiga, S., 1633
Shimoji, Y., 1167
Shorey, H. H., 1270
Showers, W. B., 835
Siegfried, B. D., 226
Sikorowski, P. P., 1708
Sisk, C. B., 1270
Slaymaker, P. H., 465
Sloan, D. R., 1297
Smith, A. M., 623
Smith, H. R., 571, 1234
Smith, R. F., 125
Smith, Jr., J. W., 950
Smitley, D. R., 288, 1685
Soares, Jr., G. G., 239
Sojack, B., 1135
Southwick, L. M., 1013
Spurgeon, D. W., 76, 94, 105
Stansly, P. A., 1018, 1024
Stehr, F., 1713
Stein, S. J., 909
Steinkraus, D. C., 465, 1414
Stoker, R. L., 817
Storch, R. H., 1275
Story, J. M., 1467
Strong, W. B., 446
Sudbrink, Jr., D. L., 1080
Sujii, E., 497
Sumerford, D. V., 657
Summy, K. R., 1322, 1333, 1718

T

Tamashiro, M., 1258
Tang, Y. Q., 1736
Tauber, C. A., 1086, 1365
Tauber, M. J., 1086, 1365
Taylor, D. H., 253
Taylor, P. S., 1086, 1096, 1109, 1115
Tenhumberg, B., 687
Tepedino, V. J., 34

Teulon, D.A.J., 233
Thompson, D. C., 1315, 1696
Thompson, R. A., 19
Throne, J. E., 889, 944
Tillman, P. G., 409
Torell, L. A., 1315
Toscano, N. C., 88
Traniello, J.F.A., 673
Tronchetti, F., 402
Trumble, J. T., 392
Trumbule, R. B., 898
Tsai, J. H., 1598
Tsitsipis, J. A., 1458

U

Ullman, D. E., 513
Upsdell, M. P., 1569

V

Van Sickle, G. A., 923, 933
Vanpoucke, J., 1604
Vega, F. E., 1245
Venso, E. A., 1069
Vidal, J., 402
Vieira, E. M., 497
Villani, M. G., 521
Vinson, S. B., 817, 1422
Voegtlin, D. J., 724

W

Waddell, K. J., 1548
Wagner, M. R., 1251
Wagner, T. L., 1179
Walgenbach, J. F., 58
Wanner, P. H., 1069
Ward, S. A., 623
Watson, D. W., 99
Weaver, D. K., 1160
Webb, S. E., 1598
Weber, D. C., 608
Weigmann, U., 595
Weiss, M. J., 564, 835
Wen, B., 1160
Werner, R. A., 372, 1539
Weseloh, R., 1713
Weseloh, R. M., 1453
White, A. J., 595
White, K. D., 1548
White, L. J., 1467
White, N.D.G., 640
Wiedenmann, R. N., 950
Wier, A. T., 326
Wileyto, E. P., 1052
Williams, C. E., 253
Williams, D. W., 1, 987
Willig, M. R., 1495
Willis, G. H., 1013
Wilson, L. J., 332
Winder, J., 1664
Windham, M. T., 1075
Witkowski, J. F., 226
Wolf, W. W., 851
Wolfson, J. L., 52
Wratten, S. D., 595

Y

Yamamoto, R. T., 1258
Yang, Y., 996, 1018, 1024, 1650
Yokomi, R. K., 1736
Yoshida, H. A., 88
Youngman, R. R., 1408
Yu, Z., 962
Yue, B., 1598

Z

Zeng, Z., 1284
Zhou, G., 193
Zuparko, R. L., 730
Zvereva, E. L., 707

CUMULATIVE SUBJECT INDEX
Environmental Entomology
Volume 24, 1995

A

acephate, Buprestidae, 1548
Quercus, 1548
Acremonium starrii, *Festuca arizonica*, 1576
Melanoplus femurrubrum, 1576
adult diapause, photoperiod, 1633
Protophormia terranovae, 1633
adult diet, egg parasitoid, 454
Gryon pennsylvanicum, 454
aerial emission, *Melasoma lapponica*, 707
population density, 707
aflatoxin, host plant resistance, 944
Sitophilus zeamais, 944
Africanized honey bees, *Apis mellifera*, 1473
Varroa jacobsoni, 1473
alfalfa, entomopathogenic nematodes, 149
Otiorhynchus ligustici, 149
amino acids, baculovirus UV inactivation, 480
Helicoverpa/Heliothis, 480
Anastrepha, fruit flies, 861
population dynamics, 861
Anastrepha ludens, *Ceratitis capitata*, 1387
trappings, 1387
Anopheles gambiae, in situ hybridization, 846
restriction fragment length polymorphism, 846
Aphelinus, *Lysiphlebus*, 1736
Toxoptera, 1736
Aphis gossypii, cotton, 465
Neozygites fresenii, 465, 1414
sampling, 1414
Aphis pomi, *Aphis spiraecola*, 1581
competition, 1581
Aphis spiraecola, *Aphis pomi*, 1581
competition, 1581
Aphthona abdominalis, embryonic development, 720
leafy spurge, 720
Apis mellifera, Africanized honey bees, 1473
Varroa jacobsoni, 1473
Apium graveolens, dispersion, 204
sequential sampling, 204
Araneae, *Cheiracenthium*, 823
Theridion, 823
Archytas marmoratus, Noctuidae, 1679
Tachinidae, 1679
arthropods, Luquillo Experimental Forest, 1495
Puerto Rico, 1495
Asteraceae, biological control, 796
Parthenium hysterophorus, 796
azalea, outbreak, 898
Stephanitis pyrioides, 898

B

Baccharis pilularis, distributional limit, 679
Rhopalomyia californica, 679
Bacillus thuringiensis, behavior, 755
field persistence, 288
Lymantria dispar, 755
nontarget species, 288
nuclear polyhedrosis virus, 239
Spodoptera, 239
baculovirus UV inactivation, amino acids, 480
Helicoverpa/Heliothis, 480
bark beetle, *Dendroctonus rufipennis*, 1539
spruce, 1539
barley yellow dwarf virus, epidemiology, 24
flight behavior, 306
Rhopalosiphum padi, 24, 306
beetles, carbon dioxide, 640
stored wheat, 640
behavior, *Bacillus thuringiensis*, 755
Bemisia, 412

Colorado potato beetle, 875
Eretmocerus, 412
Lymantria dispar, 755
oviposition, 875
Bemisia, behavior, 412
Eretmocerus, 412
Bemisia argentifolii, *Bemisia tabaci*, 88
Ceraeochrysa cubana, 1562
Chrysoperla rufilabris, 1562
feeding site preference, 354
nitrogen, 271
oviposition, 354
oviposition preference, 88
sugar, 271
Bemisia tabaci, *Bemisia argentifolii*, 88
oviposition preference, 88
sampling plans, 261
spatial distribution, 261
bioassay, biological control, 1741
synergism, 1741
biocontrol, Brazil, 475
parasite, 475
biodiversity conservation, Soil arthropods, 246
sustainable timber harvest, 246
bioenergetics, collection, 387
growth, 387
biological control, Asteraceae, 796
bioassay, 1741
Calosoma sycophanta, 1713
Cleonidius trivittatus, 1696
cucurbit pests, 143
Diadegma insulare, 1726
diamondback moth, 1726
Diaphania hyalinata, 143
dispersal, 446
Diuraphis noxia, 402
Encarsia aurantii, 779
Encarsia inaron, 459
Eucallipterus tiliae, 730
European corn borer, 436
genetic markers, 487
Lymantria dispar, 1713
Lythrum salicaria, 724
Melanaspis obscura, 779
migratory grasshopper, 762
Mimosa berlandieri, 1664
Mimosa pigra, 1664
modeling, 889
Myzus lythri, 724
natural enemy exclusion, 402
Pandora neoaphidis, 962
Parthenium hysterophorus, 796
predator mixtures, 446
root-feeding weevil, 1696
Siphoninus phillyreae, 459
Steinernema, 762
stored-products, 889
synergism, 1741
tobacco aphid, 962
Trichogramma, 436
Trioxys curvicaudus, 730
Trioxys pallidus, 487
biological invasions, boundary, 1529
Lymantria dispar, 1529
biological marker, gypsy moth, 46
rubidium, 46
biology, distribution, 601
reproductive compatibility, 601
bionomics, development stage, 917
Euxesta stigmatis, 917
body weight, extra instars, 648
Quadricalcarifera punctatella, 648
boll weevil, life table, 1718
parasitism, 1718
boundary, biological invasions, 1529
Lymantria dispar, 1529
boundary layer, flight behavior, 851
Helicoverpa zea, 851
Braconidae, encapsulation, 950
Pyralidae, 950
Brazil, biocontrol, 475
parasite, 475
Brevipalpus phoenicis, plant resistance, 1481
tea, 1481
bruchid, mesquite, 663
temperature, 663
Bruchus pisorum, development, 623
temperature, 623
Buprestidae, acephate, 1548
Quercus, 1548

C

Cacopsylla pyri, pear, 1604
resistance, 1604
Calosoma sycophanta, biological control, 1713
Lymantria dispar, 1713
Camponotus, *Formica neogagates*, 1453
Formica subsericea, 1453
carabids, codling moth, 361
insecticides, 361
carbon dioxide, beetles, 640
stored wheat, 640
carrion, decomposition, 817
Solenopsis invicta, 817
cassava, *Mononychellus progresivus*, 841
Oligonychus gossypii, 841
Ceraeochrysa cubana, *Bemisia argentifolii*, 1562
Chrysoperla rufilabris, 1562
Ceratitis capitata, *Anastrepha ludens*, 1387
trappings, 1387
cereal aphids, *Diuraphis noxia*, 538
sampling methods, 538
Cheiracenthium, Araneae, 823
Theridion, 823
Chironomidae, fruit fly eradication, 810
Hawaiian streams, 810
Chloroleucon ebano, clutch size, 1557
heritability, 1557
choice tests, feeding and oviposition trials, 179
statistical power, 179
Choristoneura occidentalis, climatic change, 1
Lymantria dispar, 1
population growth, 80
survival, 80
Choristoneura spp., oviposition deterrent, 1656
oviposition stimulant, 1656
chronic effects, insecticide toxicity, 34
Megachile rotundata, 34
Chrysoperla rufilabris, *Bemisia argentifolii*, 1562
Ceraeochrysa cubana, 1562
citrus thrips, Phytoseiidae, 738
predacious mite, 738
Cleonidius trivittatus, biological control, 1696
root-feeding weevil, 1696
climatic change, *Choristoneura occidentalis*, 1
Lymantria dispar, 1
clutch size, *Chloroleucon ebano*, 1557
heritability, 1557
Coccinella septempunctata, geographic variation, 581
local adaptation, 581
cockroaches, *Periplaneta americana*, 116
repellents, 116
codlemone, *Cydia pomonella*, 1396
mating disruption, 1396
codling moth, carabids, 361
insecticides, 361
Coleomegilla maculata, *Leptinotarsa decemlineata*, 748
predation, 748
Coleus blumei, *Planococcus citri*, 1650
variegation, 1650
collection, bioenergetics, 387
growth, 387
colony size, estimates, 1520
Reticulitermes hesperus, 1520
Colorado, methamidophos, 559
Pasimachus elongatus, 559
Colorado potato beetle, behavior, 875
oviposition, 875
community structure, disturbance, 1432
life-history theory, 1432
competition, *Aphis pomi*, 1581
Aphis spiraecola, 1581
parasitoid community, 879
Phyllonorycter, 879
developmental rate, 771
growth, 771
consumption rate, model, 687
syrphids, 687
Coptotermes formosanus,

Reticulitermes flavipes, 1592
Reticulitermes virginicus, 1592
Costa Rica,
Stryphnodendron microstachyum, 1487
tropical trees, 1487
Cotesia parasitoids, host acceptability, 978
suitability, 978
cotton, *Aphis gossypii*, 465
diapause, 332
Neozygites fresenii, 465
Tetranychus urticae, 332
cucurbit pests, biological control, 143
Diaphania hyalinata, 143
Cucurbita pepo, *Melittia cucurbittae*, 1627
Sesiidae, 1627
Curculionidae, degree-day, 1404
Hypera postica, 1404
Cyclocephala pasadenae, mechanical control, 243
white grubs, 243
Cydia pomonella,
codlemone, 1396
mating disruption, 1396

D

decision making,
sampling, 521
turf pests, 521
decomposition, carrion, 817
Solenopsis invicta, 817
degree-day,
Curculionidae, 1404
Hypera postica, 1404
degree-day
accumulations, greedy scale, 1569
phenology, 1569
Dendroctonus rufipennis,
bark beetle, 1539
Dendroctonus simplex, 372
monoterpenes, 372
spruce, 1539
Dendroctonus simplex,
Dendroctonus rufipennis, 372
monoterpenes, 372
development, *Bruchus pisorum*, 623
ectotherm, 68
emergence, 76
Eoreuma loftini, 76
life table parameters, 1598
temperature, 623
temperature dependence, 68
Thrips palmi, 1598
developmental rate,
consumption, 771
growth, 771
development stage,
bionomics, 917
Euxesta stigmatis, 917
Diabrotica virgifera virgifera, sampling, 1408
sex ratio, 1408
Diadegma insulare,
biological control, 1726
diamondback moth, 1726
diamondback moth,
biological control, 1726
Diadegma insulare, 1726
diapause, cotton, 332
Erythroneura comes, 1504
phenology model, 1504
Tetranychus urticae, 332
diapause induction,
photoperiod, 1453
Sesamia nonagrioides, 1453
Diaphania hyalinata,
biological control, 143
cucurbit pests, 143
discovery efficiency,
soybeans, 1703
Trissolcus basalis, 1703
dispersal, biological control, 446
insecticides, 226
Leptinotarsa decemlineata, 608
predator mixtures, 446
Solanum, 608
spider mites, 226
dispersion, *Apium graveolens*, 204
sequential sampling, 204
distribution, biology, 601
reproductive compatibility, 601
distributional limit,
Baccharis pilularis, 679
Rhopalomyia californica, 679
disturbance, community structure, 1432
life-history theory, 1432
Diuraphis noxia,
biological control,

402
cereal aphids, 538
host-plant nutrition, 367
natural enemy exclusion, 402
Russian wheat aphid, 367
sampling methods, 538
DNA isolation, field preservation, 716
storage conditions, 716
dose-dependent, Scolytidae, 692
semiochemical, 692

E

ecology, *Flourensia*, 588
phytophagous insects, 588
ecotype, northern Great Plains, 564
postdiapause development, 564
ectotherm, development, 68
temperature dependence, 68
edge effects, *Epilachna varivestis*, 1515
flight behavior, 1515
egg mass, gypsy moth, 571
Lymantria dispar, 529, 571
outbreak, 529
egg parasitoid, adult diet, 454
Gryon pennsylvanicum, 454
embryonic development, *Aphthona abdominalis*, 720
leafy spurge, 720
emergence, development, 76
Eoreuma loftini, 76
encapsulation, Braconidae, 950
Pyralidae, 950
Encarsia aurantii, biological control, 779
Melanaspis obscura, 779
Encarsia inaron, biological control, 459
Siphoninus phillyreae, 459
enemy-free space, *Eurosta solidaginis*, 657
herbivore mortality, 657
energetics, gall midge, 635
morphometrics, 635
entomopathogenic nematodes, alfalfa, 149
Heterorhabditidae, 159
Liriomyza trifolii, 431
Otiorhynchus ligustici, 149
Steinernema carpocapsae, 431
Steinernematidae, 159
Entomophaga maimaiga, Entomophthorales, 1685
Lymantria dispar, 1685
Entomophthorales, *Entomophaga maimaiga*, 1685
Lymantria dispar, 1685
Eoreuma loftini, development, 76
emergence, 76
fecundity, 94
mating behavior, 105
reproductive biology, 94, 105
Epiblema scudderiana, *Eurosta solidaginis*, 697
roadsides, 697
epidemiology, barley yellow dwarf virus, 24
Rhopalosiphum padi, 24
Epilachna varivestis, edge effects, 1515
flight behavior, 1515
Eretmocerus, behavior, 412
Bemisia, 412
Erythroneura, host plant resistance, 550
Vitis, 550
Erythroneura comes, diapause, 1504
phenology model, 1504
estimates, colony size, 1520
Reticulitermes hesperus, 1520
ethylene, *Schizaphis graminum*, 1637
Triticum aestivum, 1637
Eucallipterus tiliae, biological control, 730
Trioxys curvicaudus, 730
European corn borer, biological control, 436
Trichogramma, 436
Eurosta solidaginis, enemy-free space, 657
Epiblema scudderiana, 697

herbivore mortality, 657
roadsides, 697
Euura, galling sawfly, 909
Pontania, 909
Euxesta stigmatis, bionomics, 917
development stage, 917
extra instars, body weight, 648
Quadricalcarifera punctatella, 648

F

fecundity, *Eoreuma loftini*, 94
reproductive biology, 94
feeding and oviposition trials, choice tests, 179
statistical power, 179
feeding site preference, *Bemisia argentifolii*, 354
oviposition, 354
Festuca arizonica, *Acremonium starrii*, 1576
Melanoplus femurrubrum, 1576
field persistence, *Bacillus thuringiensis*, 288
nontarget species, 288
field preservation, DNA isolation, 716
storage conditions, 716
flight behavior, barley yellow dwarf virus, 306
boundary layer, 851
edge effects, 1515
Epilachna varivestis, 1515
Helicoverpa zea, 851
Rhopalosiphum padi, 306
Flourensia, ecology, 588
phytophagous insects, 588
food range, life tables, 870
Typhlodromalus peregrinus, 870
foraging behavior, *Pogonomyrmex badius*, 673
polymorphism, 673
Formica neogagates, *Camponotus*, 1453
Formica subsericea, 1453
Formica subsericea, *Camponotus*, 1453
Formica neogagates, 1453
fruit flies, *Anastrepha*, 861
population dynamics, 861
fruit fly eradication, Chironomidae, 810
Hawaiian streams, 810
fungi, nests, 298
Vespidae, 298
fungicide toxicity, predacious mites, 423
scab-resistant apple cultivars, 423

G

Galerucella, *Hylobius transversovittatus*, 967
Lythrum salicaria, 967
gall midge, energetics, 635
morphometrics, 635
galling sawfly, *Euura*, 909
Pontania, 909
genetic markers, biological control, 487
Trioxys pallidus, 487
geographic variation, *Coccinella septempunctata*, 581
local adaptation, 581
geostatistics, *Lymantria dispar*, 193
sampling, 193
granivory, seed dispersal, 1422
Solenopsis invicta, 1422
greedy scale, degree-day accumulations, 1569
phenology, 1569
growth, bioenergetics, 387
collection, 387
consumption, 771
developmental rate, 771
Gryon pennsylvanicum, adult diet, 454
egg parasitoid, 454
gypsy moth, biological marker, 46
egg mass, 571
Lymantria dispar, 571
rubidium, 46

H

Hawaiian streams, Chironomidae, 810
fruit fly eradication, 810
Helicoverpa zea, boundary layer, 851
flight behavior, 851
Heliothis virescens, 1708
Microplitis croceipes, 1708

Helicoverpa/Heliothis, amino acids, 480
baculovirus UV inactivation, 480
Heliothis, hybrids, 341
oviposition, 341
Heliothis virescens, *Helicoverpa zea*, 1708
Heliothis virescens-H. sublfexa backross, 409
Microplitis croceipes, 409, 1708
Heliothis virescens-H. sublfexa backross, *Heliothis virescens*, 409
Microplitis croceipes, 409
herbivore mortality, enemy-free space, 657
Eurosta solidaginis, 657
heritability, *Chloroleucon ebano*, 1557
clutch size, 1557
Heterorhabditidae, entomopathogenic nematodes, 159
Steinernematidae, 159
Homoptera, phylogenetic constraints hypothesis, 497
plant vigor hypothesis, 497
host acceptability, *Cotesia* parasitoids, 978
suitability, 978
host plant resistance, aflatoxin, 944
Erythroneura, 550
landing behavior, 513
life tables, 313
Sitophilus zeamais, 944
Therioaphis trifolii f. maculata, 313
tomato spotted wilt tospovirus, 513
Vitis, 550
host plant resistance mechanisms, soybean, 1381
whiteflies, 1381
host preference, inheritance, 278
Leptinotarsa decemlineata, 278
host-plant nutrition, *Diuraphis noxia*, 367
Russian wheat aphid, 367
host-plant resistance, Mexican bean beetle, 52
protease inhibitor, 52
house fly, microbial control, 99
Musca domestica, 99
hoverflies, phenology, 595
pollen feeding, 595
hybrids, *Heliothis*, 341
oviposition, 341
Hylobius transversovittatus, *Galerucella*, 967
Lythrum salicaria, 967
Hypera postica, Curculionidae, 1404
degree-day, 1404

I

in situ hybridization, *Anopheles gambiae*, 846
restriction fragment length polymorphism, 846
inheritance, host preference, 278
Leptinotarsa decemlineata, 278
insecticide resistance, linear furanocoumarin, 392
Spodoptera exigua, 392
insecticide-resistance model, *Leptinotarsa decemlineata*, 167
sex linkage, 167
insecticides, carabids, 361
codling moth, 361
dispersal, 226
spider mites, 226
insecticide toxicity, chronic effects, 34
Megachile rotundata, 34
integrated pest management, *Panonychus ulmi*, 125
Typhlodromus pyri, 125
intercropping, natural enemies, 253
Plathypena scabra, 253
intraspecific competition, *Leptinotarsa decemlineata*, 576
lipids, 576
Isoptera, *Microcerotermes*, 1442
Nasutitermes, 1442

L

Lambdina fiscellaria lugubrosa, monitor, 923

933
pheromone based, 923
predict, 933
landing behavior, host plant resistance, 513
tomato spotted wilt tospovirus, 513
landscape, *Lymantria dispar*, 10
phenological model, 10
leafy spurge, *Aphthona abdominalis*, 720
embryonic development, 720
Leptinotarsa decemlineata, *Coleomegilla maculata*, 748
dispersal, 608
host preference, 278
inheritance, 278
insecticide-resistance model, 167
intraspecific competition, 576
lipids, 576
predation, 748
sex linkage, 167
Solanum, 608
life history, temperature, 380
whitefly, 380
life table, boll weevil, 1718
food [illegible], 870
host plant resistance, 313
parasitism, 1718
Therioaphis trifolii f. maculata, 313
Typhlodromalus peregrinus, 870
life table parameters, development, 1598
Thrips palmi, 1598
life-history theory, community structure, 1432
disturbance, 1432
linear furanocoumarin, insecticide resistance, 392
Spodoptera exigua, 392
lipids, intraspecific competition, 576
Leptinotarsa decemlineata, 576
Liriomyza trifolii, entomopathogenic nematodes, 431
Steinernema carpocapsae, 431
Lissorhoptrus oryzophilus, oviposition, 19
plant density, 19
local adaptation, *Coccinella septempunctata*, 581
geographic variation, 581
Luquillo Experimental Forest, arthropods, 1495
Puerto Rico, 1495
Lymantria dispar, *Bacillus thuringiensis*, 755
behavior, 755
biological control, 1713
biological invasions, 1529
boundary, 1529
Calosoma sycophanta, 1713
Choristoneura occidentalis, 1
climatic change, 1
egg mass, 529, 571
Entomophaga maimaiga, 1685
Entomophthorales, 1685
geostatistics, 193
gypsy moth, 571
landscape, 10
outbreak, 529
phenological model, 10
sampling, 193
Lysiphlebus, *Aphelinus*, 1736
Toxoptera, 1736
Lythrum salicaria, biological control, 724
Galerucella, 967
Hylobius transversovittatus, 967
Myzus lythri, 724

M

mantids, population persistence, 348
Tenodera sinensis, 348
mating behavior, *Eoreuma loftini*, 105
reproductive biology, 105
mating disruption, codlemone, 1396
Cydia pomonella, 1396
Matsucoccus josephi, *Parlatoria oleae*, 506
Planococcus citri, 506
mechanical control, *Cyclocephala pasadenae*, 243
white grubs, 243
Megachile rotundata, chronic effects, 34
insecticide toxicity, 34
Melanaspis obscura,

biological control, 779
Encarsia aurantii, 779
Melanoplus femurrubrum, *Acremonium starrii*, 1576
Festuca arizonica, 1576
Melasoma lapponica, aerial emission, 707
population density, 707
Melittia cucurbittae, *Cucurbita pepo*, 1627
Sesiidae, 1627
mesquite, bruchid, 663
temperature, 663
methamidophos, Colorado, 559
Pasimachus elongatus, 559
Mexican bean beetle, host-plant resistance, 52
protease inhibitor, 52
microbial control, house fly, 99
Musca domestica, 99
Microcerotermes, Isoptera, 1442
Nasutitermes, 1442
Microplitis croceipes, *Helicoverpa zea*, 1708
Heliothis virescens, 409, 1708
Heliothis virescens-H. sublfexa backross, 409
migratory grasshopper, biological control, 762
Steinernema, 762
Mimosa berlandieri, biological control, 1664
Mimosa pigra, 1664
Mimosa pigra, biological control, 1664
Mimosa berlandieri, 1664
model, consumption rate, 687
parasitoid, 1608
stored-product, 1608
syrphids, 687
modeling, biological control, 889
stored-products, 889
monitor, *Lambdina fiscellaria lugubrosa*, 923, 933
pheromone based, 923
predict, 933
Mononychellus progresivus, cassava, 841
Oligonychus gossypii, 841
monoterpenes, *Dendroctonus rufipennis*, 372
Dendroctonus simplex, 372
morphometrics, energetics, 635
gall midge, 635
Musca domestica, house fly, 99
microbial control, 99
Myzus lythri, biological control, 724
Lythrum salicaria, 724
Myzus nicotianae, *Pandora neoaphidis*, 1637
plant-insect interactions, 1637

N

Nasutitermes, Isoptera, 1442
Microcerotermes, 1442
natural enemies, intercropping, 253
Plathypena scabra, 253
natural enemy exclusion, biological control, 402
Diuraphis noxia, 402
Neozygites fresenii, *Aphis gossypii*, 465, 1414
cotton, 465
sampling, 1414
nests, fungi, 298
Vespidae, 298
nitrogen, *Bemisia argentifolii*, 271
nonnodulating soybean, 326
poinsettia, 40
soybean looper, 326
sugar, 271
sweetpotato whitefly, 40
Noctuidae, *Archytas marmoratus*, 1679
Tachinidae, 1679
nonnodulating soybean, nitrogen, 326
soybean looper, 326
nontarget species, *Bacillus thuringiensis*, 288
field persistence, 288
northern Great Plains, ecotype, 564
postdiapause development, 564
nuclear polyhedrosis virus, *Bacillus thuringiensis*, 239
Spodoptera, 239

O

Oligonychus gossypii,

cassava, 841
Mononychellus progresivus, 841
Orthoptera, population dynamics, 212
simulation, 212
Ostrinia nubilalis, surface airflow, 835
voltinism, 835
Otiorhynchus ligustici, alfalfa, 149
entomopathogenic nematodes, 149
outbreak, azalea, 898
egg mass, 529
Lymantria dispar, 529
Stephanitis pyrioides, 898
overwintering, thrips, 58
tomato spotted wilt virus, 58
overwintering emergence, *Stethorus punctum punctum*, 110
trapping, 110
oviposition, behavior, 875
Bemisia argentifolii, 354
Colorado potato beetle, 875
feeding site preference, 354
Heliothis, 341
hybrids, 341
Lissorhoptrus oryzophilus, 19
plant density, 19
oviposition deterrent, *Choristoneura* spp., 1656
oviposition stimulant, 1656
oviposition preference, *Bemisia argentifolii*, 88
Bemisia tabaci, 88
oviposition stimulant, *Choristoneura* spp., 1656
oviposition deterrent, 1656

P

Pandora neoaphidis, biological control, 962
Myzus nicotianae, 1637
plant-insect interactions, 1637
tobacco aphid, 962
Panonychus ulmi, integrated pest management, 125
Typhlodromus pyri, 125
parasite, biocontrol, 475
Brazil, 475
parasitism, boll weevil, 1718
life table, 1718
parasitoid, model, 1608
stored-product, 1608
parasitoid community, competition, 879
Phyllonorycter, 879
Parlatoria oleae, *Matsucoccus josephi*, 506
Planococcus citri, 506
Parthenium hysterophorus, Asteraceae, 796
biological control, 796
Pasimachus elongatus, Colorado, 559
methamidophos, 559
pear, *Cacopsylla pyri*, 1604
resistance, 1604
Periplaneta americana, cockroaches, 116
repellents, 116
phenological model, landscape, 10
Lymantria dispar, 10
phenology, degree-day accumulations, 1569
greedy scale, 1569
hoverflies, 595
pollen feeding, 595
phenology model, diapause, 1504
Erythroneura comes, 1504
pheromone based, *Lambdina fiscellaria lugubrosa*, 923
monitor, 923
photoperiod, adult diapause, 1633
diapause induction, 1453
Protophormia terranovae, 1633
Sesamia nonagrioides, 1453
Phyllonorycter, competition, 879
parasitoid community, 879
phylogenetic constraints hypothesis, Homoptera, 497
plant vigor hypothesis, 497
phytophagous insects, ecology, 588
Flourensia, 588
Phytoseiidae, citrus thrips, 738
predacious mite, 738
Planococcus citri, *Coleus blumei*, 1650
Matsucoccus josephi, 506
Parlatoria oleae, 506

variegation, 1650
plant density,
Lissorhoptrus oryzophilus, 19
oviposition, 19
plant resistance,
Brevipalpus phoenicis, 1481
tea, 1481
plant vigor hypothesis,
Homoptera, 497
phylogenetic constraints hypothesis, 497
plant-insect interactions,
Myzus nicotianae, 1637
Pandora neoaphidis, 1637
Plathypena scabra,
intercropping, 253
natural enemies, 253
Pogonomyrmex badius,
foraging behavior, 673
polymorphism, 673
poinsettia, nitrogen, 40
sweetpotato whitefly, 40
pollen feeding,
hoverflies, 595
phenology, 595
polymorphism, foraging behavior, 673
Pogonomyrmex badius, 673
Pontania, *Euura*, 909
galling sawfly, 909
population density, aerial emission, 707
Melasoma lapponica, 707
population dynamics,
Anastrepha, 861
fruit flies, 861
Orthoptera, 212
simulation, 212
population growth,
Choristoneura occidentalis, 80
survival, 80
population persistence,
mantids, 348
Tenodera sinensis, 348
postdiapause development, ecotype, 564
northern Great Plains, 564
predacious mite, citrus thrips, 738
fungicide toxicity, 423
Phytoseiidae, 738
scab-resistant apple cultivars, 423
predation, *Coleomegilla maculata*, 748
Leptinotarsa decemlineata, 748
spotted knapweed, 1467
Urophora affinis, 1467
predator mixtures,
biological control, 446
dispersal, 446
predict, *Lambdina fiscellaria lugubrosa*, 933
monitor, 933
protease inhibitor, host-plant resistance, 52
Mexican bean beetle, 52
Protophormia terranovae, adult diapause, 1633
photoperiod, 1633
Puerto Rico, arthropods, 1495
Luquillo Experimental Forest, 1495
Pyralidae, Braconidae, 950
encapsulation, 950

Q

Quadricalcarifera punctatella, body weight, 648
extra instars, 648
Quercus, acephate, 1548
Buprestidae, 1548

R

repellents, cockroaches, 116
Periplaneta americana, 116
reproductive biology,
Eoreuma loftini, 94, 105
fecundity, 94
mating behavior, 105
reproductive compatibility, biology, 601
distribution, 601
resistance, *Cacopsylla pyri*, 1604
pear, 1604
restriction fragment length polymorphism,
Anopheles gambiae, 846
in situ hybridization, 846
Reticulitermes flavipes,
Coptotermes formosanus, 1592
Reticulitermes virginicus, 1592
Reticulitermes hesperus,
colony size, 1520
estimates, 1520
Reticulitermes virginicus,
Coptotermes formosanus, 1592
Reticulitermes flavipes, 1592
Rhopalomyia californica,

Baccharis pilularis, 679
distributional limit, 679
Rhopalosiphum padi, barley yellow dwarf virus, 24, 306
epidemiology, 24
flight behavior, 306
roadsides, *Epiblema scudderiana*, 697
Eurosta solidaginis, 697
root-feeding weevil, biological control, 1696
Cleonidius trivittatus, 1696
rubidium, biological marker, 46
gypsy moth, 46
Russian wheat aphid, *Diuraphis noxia*, 367
host-plant nutrition, 367

S

sampling, *Aphis gossypii*, 1414
decision making, 521
Diabrotica virgifera virgifera, 1408
geostatistics, 193
Lymantria dispar, 193
Neozygites fresenii, 1414
sex ratio, 1408
turf pests, 521
sampling methods, cereal aphids, 538
Diuraphis noxia, 538
sampling plans, *Bemisia tabaci* strain B, 261
spatial distribution, 261
scab-resistant apple cultivars, fungicide toxicity, 423
predacious mites, 423
Schizaphis graminum, ethylene, 1637
Triticum aestivum, 1637
Scolytidae, dose-dependent, 692
semiochemical, 692
searching behavior, sex pheromone, 1616
stored product moths, 1616
seed dispersal, granivory, 1422
Solenopsis invicta, 1422
semiochemical, dose-dependent, 692
Scolytidae, 692
sequential sampling, *Apium graveolens*, 204
dispersion, 204
Sesamia nonagrioides, diapause induction, 1453
photoperiod, 1453
Sesiidae, *Cucurbita pepo*, 1627
Melittia cucurbittae, 1627
sex linkage, insecticide-resistance model, 167
Leptinotarsa decemlineata, 167
sex pheromone, searching behavior, 1616
stored product moths, 1616
sex ratio, *Diabrotica virgifera virgifera*, 1408
sampling, 1408
simulation, Orthoptera, 212
population dynamics, 212
Siphoninus phillyreae, biological control, 459
Encarsia inaron, 459
Sitophilus zeamais, aflatoxin, 944
host plant resistance, 944
Soil arthropods, biodiversity conservation, 246
sustainable timber harvest, 246
Solanum, dispersal, 608
Leptinotarsa decemlineata, 608
Solenopsis invicta, carrion, 817
decomposition, 817
granivory, 1422
seed dispersal, 1422
soybean, discovery efficiency, 1703
host plant resistance mechanisms, 1381
Trissolcus basalis, 1703
whiteflies, 1381
soybean looper, nitrogen, 326
nonnodulating soybean, 326
Spartina pectinata, spiders, 832
wetlands, 832
spatial distribution, *Bemisia tabaci* strain B, 261
sampling plans, 261
spider mites, dispersal, 226
insecticides, 226
spiders, *Spartina pectinata*, 832
wetlands, 832

Spodoptera, *Bacillus thuringiensis*, 239
nuclear polyhedrosis virus, 239
Spodoptera exigua, insecticide resistance, 392
linear furanocoumarin, 392
spotted knapweed, predation, 1467
Urophora affinis, 1467
spruce, bark beetle, 1539
Dendroctonus rufipennis, 1539
statistical power, choice tests, 179
feeding and oviposition trials, 179
Steinernema, biological control, 762
migratory grasshopper, 762
Steinernema carpocapsae, entomopathogenic nematodes, 431
Liriomyza trifolii, 431
Steinernematidae, entomopathogenic nematodes, 159
Heterorhabditidae, 159
Stephanitis pyrioides, azalea, 898
outbreak, 898
Stethorus punctum punctum, overwintering emergence, 110
trapping, 110
storage conditions, DNA isolation, 716
field preservation, 716
stored-product, biological control, 889
model, 1608
modeling, 889
parasitoid, 1608
stored product moths, searching behavior, 1616
sex pheromone, 1616
stored wheat, beetles, 640
carbon dioxide, 640
Stryphnodendron microstachyum, Costa Rica, 1487
tropical trees, 1487
sugar, *Bemisia argentifolii*, 271
nitrogen, 271
sugar maple, *Taeniothrips inconsequens*, 233
within-tree distribution, 233
suitability, *Cotesia* parasitoids, 978
host acceptability, 978
surface airflow, *Ostrinia nubilalis*, 835
voltinism, 835
survival, *Choristoneura occidentalis*, 80
population growth, 80
sustainable timber harvest, biodiversity conservation, 246
Soil arthropods, 246
sweetpotato whitefly, nitrogen, 40
poinsettia, 40
synergism, bioassay, 1741
biological control, 1741
syrphids, consumption rate, 687
model, 687

T

Tachinidae, *Archytas marmoratus*, 1679
Noctuidae, 1679
Taeniothrips inconsequens, sugar maple, 233
within-tree distribution, 233
tea, *Brevipalpus phoenicis*, 1481
plant resistance, 1481
temperature, bruchid, 663
Bruchus pisorum, 623
development, 623
life history, 380
mesquite, 663
whitefly, 380
temperature dependence, development, 68
ectotherm, 68
Tenodera sinensis, mantids, 348
population persistence, 348
Tetranychus urticae, cotton, 332
diapause, 332
Theridion, Araneae, 823
Cheiracenthium, 823
Therioaphis trifolii f. maculata, host plant resistance, 313
life tables, 313
thrips, overwintering, 58
tomato spotted wilt virus, 58
Thrips palmi, development, 1598
life table parameters, 1598
tobacco aphid, biological control, 962
Pandora neoaphidis, 962

tomato spotted wilt tospovirus, host plant resistance, 513
landing behavior, 513
tomato spotted wilt virus, overwintering, 58
thrips, 58
Toxoptera, *Aphelinus*, 1736
Lysiphlebus, 1736
trapping, *Anastrepha ludens*, 1387
Ceratitis capitata, 1387
overwintering emergence, 110
Stethorus punctum punctum, 110
Trichogramma, biological control, 436
European corn borer, 436
Trioxys curvicaudus, biological control, 730
Eucallipterus tiliae, 730
Trioxys pallidus, biological control, 487
genetic markers, 487
Trissolcus basalis, discovery efficiency, 1703
soybeans, 1703
Triticum aestivum, ethylene, 1637
Schizaphis graminum, 1637
tropical trees, Costa Rica, 1487
Stryphnodendron microstachyum, 1487
turf pests, decision making, 521
sampling, 521
Typhlodromalus peregrinus, food range, 870
life tables, 870
Typhlodromus pyri, integrated pest management, 125
Panonychus ulmi, 125

U

Urophora affinis, predation, 1467
spotted knapweed, 1467

V

variegation, *Coleus blumei*, 1650
Planococcus citri, 1650
Varroa jacobsoni, Africanized honey bees, 1473
Apis mellifera, 1473
Vespidae, fungi, 298
nests, 298
Vitis, *Erythroneura*, 550
host plant resistance, 550
voltinism, *Ostrinia nubilalis*, 835
surface airflow, 835

W

wetlands, *Spartina pectinata*, 832
spiders, 832
whiteflies, host plant resistance mechanisms, 1381
soybean, 1381
whitefly, life history, 380
temperature, 380
white grubs, *Cyclocephala pasadenae*, 243
mechanical control, 243
within-tree distribution, sugar maple, 233
Taeniothrips inconsequens, 233